

The Wobbly Oscillator



Hams Who Serve

Cuyahoga Amateur Radio Society

Nov. – Dec. 2021 Volume 51



Happy Holidays

From The Prez

New Year – New Look

Welcome new Vice President Ron Hollas, K8RJH; Secretary, Matt Perlman, KE8OZU; and Executive Board member, Eddie Stevens, KD8FTS. These fellows were elected at the November meeting and will most assuredly add their influence on the leadership team. Mark Moro, WJ8WM, was elected to the open Even Year Board position. President Toby Kolman, WT8O; Treasurer Bob Check, W8GC; Even Year Board Members Terry Pillatt, KB8DTC, and Scott Smith, AC8NW, all ran unopposed retaining their respective positions.

Let's hope and pray next year will be an improvement and we can overcome the difficulties we have encountered the last couple of years.

New Look – *Wobbly Oscillator*

We are going to do a makeover to the WO in 2022. The editor obtained new software when his damaged hard drive was recently replaced. We will be using a new format to modernize the look of our newsletter. Any suggestions now, or after the new design is introduced will be welcomed and appreciated.

Unless there is massive public outcry, the "Radiosport" feature will be dropped. There has been little or no positive feedback from readers to justify its time-consuming preparation.

We continually request contributions from members, especially pictures. If you have any photos of your shack or antennas, please send them in so we can share them with the readers. We would also be glad to publish any pictures you take on travels and adventures.

ARRL Participation

The database for our club membership was another file lost in the crash and burn of the editor's computer. One item gone poof was each members affiliation with the American Radio Relay League. Our data was always skewed since it was garnered from the meeting and activity attendance sheets. Those members never attending were not classified. In recreating the member list, we decided to fill in the blanks. Discovering there was no way an ARRL member could check to see if another ham was an ARRL member, we were aided by Scott Yonally, N8SY, who went over our roster and reported back which CARS members were ARRL members.

The results were disappointing. Only about 60% of our members belong to the ARRL. We continue to extol the benefits of ARRL membership. We have had the Ohio Section Managers, past and present, speak at our meetings explaining the advantages of ARRL membership, and what the League does to support amateur radio. Please consider joining the ARRL if you are not already a member.

73, Toby, WT8O

CARS October Meeting Minutes *October 12, 2021*

Location: The meeting was held at My Friends restaurant in Cleveland, 10 members were in attendance.

Called to Order: CARS President Toby Kolman, WT8O, called the meeting to order at 7:30 PM.

Pledge of Allegiance: Those present pledged allegiance to the flag of the United States of America.

Introductions: Introductions were felt unnecessary given the modest number in attendance and were therefore skipped.

September Minutes: The September minutes were approved as published in the October *Wobbly Oscillator*.

Vote on new Member: Toby, WT8O, called for a motion on voting in prospective new member Gil Tash, AC8VZ. Terry Pillatt, KB8DTC made the motion and Joe Ulaszewski, KD8BAL seconded. Those present voted unanimously to vote Gil in as a new member.



A small, but jolly group at the October meeting.



Officer's Reports

Treasurer's Report: Toby, WT8O, relayed a brief note from Club Treasurer Bob Check, W8GC, (who was not in attendance), that club finances are solid for the time being, but inbound monies could be better. Eddie Stevens, KD8FTS informed those present that Amazon Smiles just released an app for use on mobile phones, making it possible to make Amazon Smiles purchases on smartphones as well as desktop and laptop PCs. Eddie encouraged members to try the app and credit their purchases to CARS on Amazon Smiles.

President's Report: Toby, WT8O, recapped the club's presence at the recent Cleveland Hamfest. CARS had two tables, along with a display, and traffic at the table was brisk. Equipment was sold, bringing in some dollars to the club treasury, and club members took the opportunity to prospect for new members.

Vice President's Report: No report. Mark Moro, WJ8WJM, could not attend because his presence was required at a council meeting in the city where he works.

Secretary's Report: Club Matt Perlman, KE8OZU, could not attend the meeting. Substitute secretary, Andy Evridge, KD8SCV, had nothing to report.

Committee Reports

Public Service: Ron Hollas, K8RJH, reported on three upcoming public service events:

- * Boy Scouts Jamboree on The Air (JOTA) event on October 17 in Orange Village's Firehouse. More information is available from <https://n8esg.org/jota/>.

- * The Cleveland Marathon is scheduled for October 23/24. Although their communications slots are all filled, they are asking for backups to "shadow" the assigned slots.

- * Pumpkin Patrols (various counties) to serve as "eyes and ears" on Halloween.

Following Ron's report, Toby, WT8O, reminded members of the importance of public service events and expects members to become more involved in them in 2022.

VE Update: Nothing to report, no testees appeared at the VE testing site on September 12. Next VE session is November 14th, a Sunday, @ 9:15 AM at the Old Rec Center in Independence. (Club member and a CARS VE examiner, George, K8KR, affirmed that VE Sessions are indeed back at the Independence location and the new time is 9:15 AM.)

Program: Toby, WT8O, acknowledged and thanked Joe, KD8BAL, for his continuing good work on securing programs for club meetings.

Next CARS Meeting
Tuesday, January 11 - 7:30 PM

Busch Community Room

****Meeting Program****

Ron Hollas, K8RJH

Preparing for Public Service

See Website for Details - www.2cars.org

Tech: Although Scott Smith, AC8NW, had nothing to report regarding the tech committee, Toby thanked him and the members of the committee for their work in creating a solid and reliable repeater system for both analog and digital operators.

Refreshment: Toby, WT8O, thanked the refreshment committee – Ron, K8RJH (soft drinks), Rich Williams, NW8X (donuts), and Shawn Cresante, KE8RMV (coffee).

Old Business: None to report.

New Business

Nominations: Nominations for officers and even-year board members were addressed.

* President: Shawn, KE8RMV, nominated Toby, WT8O; Terry, KB8DTC, seconded. Toby accepted nomination to run for another term.

* Vice President: Current CARS Vice President, Mark Moro, WJ8WM, has declined nomination to run again. Toby, WT8O, nominated Ron, K8RJH; Scott, AC8NW, seconded and Ron accepted the nomination to run for club VP.

* Treasurer: Toby, WT8O, nominated current Treasurer, Bob Check, W8GC; Shawn, KE8RMV, seconded. Bob agreed to accept the nomination to run for another term.

* Secretary: Toby, WT8O, nominated current Secretary, Matt Perlman, KE8OZU; Scott, AC8NW, seconded. Matt agreed to run for another term.

* Even-year board positions currently held by Scott, AC8NW, and Terry, KB8DTC. Scott and Terry nominated then seconded each other to run for new terms.

* Vacancy on board left by departure of Mike Kemmett, KD8OUE, who is moving out of state. Toby nominated Mark, WJ8WM; Shawn, KE8RMV, seconded and Mark will run for the vacant board seat.

50/50 Drawing: Ron, K8RJH, won the 50/50 and donated his winnings back to the club.

Adjournment: Toby, WT8O, adjourned the meeting at 8:15 PM.

After the meeting, Ron K8RJH, presented a 12-minute video on the collapse of the Arecibo Observatory in Puerto Rico December of 2020.

Submitted by Andy Evridge, KD8SCV, substituting for CARS Secretary, Matt Perlman, KE8OZU



The video program of the collapse of The Arecibo Observatory captivated the group. [L]

The service at My Friends Restaurant is usually very good, but our waitress at the October meeting was awesome. [R]



CARS Members Support the 2021 Cleveland Marathon Ron, K8RJH

The annual Cleveland Marathon has been a premier volunteer event for Amateur Radio operators for many years, and this year was proven no exception for all attending. Normally scheduled in May, this year's Marathon was rescheduled for the weekend of October 23rd and 24th, 2021 to allow the current COVID pandemic to subside and the over 7,000 runners to safely participate in this charity event.

Amateur Radio provide the core communication and situational awareness capabilities over this 26-mile lakefront course. Stretching from Downtown Cleveland to Lakewood Park, the two-lap course relied on APRS (Amateur Radio Positioning System) and Amateur VHF/UHF Voice to provide the Marathon Race Organizers, Medical Teams and Public Safety status with real time updates.



The 7 AM Race Start on Sunday required planning to select a route in Ohio City that was well illuminated for the large group of runners before they entered the Shoreway circuit.

The communication's coordination was managed by the N8ESG Emergency Support Group and hosted in the City of Cleveland's Downtown EOC (Emergency Operations Center) which interfaced with Local Public Safety, Fire and Medical resources.

Race Organizers and Public Safety Officials monitored this year's 26 Mile Marathon route progress using APRS in Real Time. The red markers are the course "water stops" for the participants.



There were 24 amateur operators that volunteered in this two-day event from the local Cleveland Area, of which six are active CARS members. The club members participating in this year's Cleveland Marathon were Arp Viiberg, K8ARP; Bill Brown, N8BBB; Chuck Mehozonek, K8CVM; Larry Shimerka, N8OWS; Gary Berkowitz, K8REF, and Ron Hollas, K8RJH. The K8ZFR repeater was part of the communications plan being the backup channel for this event.

It takes several teams of volunteers to support an activity such as a Marathon event, from staffing one of the seven remote water stops, to the course medical units that provide their expertise in all participants. Amateur Radio is one of the proven support bonds using communications that made this race event successful over the years.



I enjoyed being assigned at "Water Stop 4" on the Shoreway for this year's race. Not only did I see the Marathon Runners pass multiple times on the route, I appreciated meeting many of the volunteers tending the refreshments (water and rehydration drinks) and networking with the medical team that attended to any runners incidents.

By any metric, this year's Cleveland Marathon was a success. It gave me a chance to further improve my operating skills, meet new local area amateurs, and provide community support for a local event.

For those interested in participating in next year's Cleveland Marathon, it is scheduled for Saturday and Sunday, May 21 & 22, 2022.

November CARS Meeting Minutes

November 9, 2021

Location: The meeting was held in Busch Funeral Home's North Community Room, 7501 Ridge Road, in Parma. Twenty-two members were in attendance.

Called to Order: CARS President Toby Kolman, WT8O, called the meeting to order at 7:30 PM.

Pledge of Allegiance: Those present pledged allegiance to the flag of the United States of America.

Introductions: All members present at the meeting introduced themselves.

October Minutes: Back-up Secretary, Andy Evridge, KD8SCV, read the minutes aloud. Toby, WT8O, then asked if there were any corrections.

Metro Sinko, W8MET, responded by nominating Eddie Stevens, KD8FTS, for the upcoming odd-year open board position. The nomination was seconded by Arp, K8ARP, and Eddie accepted.

There were no other corrections, and the October minutes were accepted. They will appear in a special two-month edition of the *Wobbly Oscillator* which will publish later in November 2021.



The November meeting was well attended.

Officer's Reports

Treasurer's Report: Club Treasurer, Bob Check, W8GC, reported on the club's finances, plus reminded those present to renew their memberships with the club. In addition, he reminded all members that the club benefits financially when members join or renew their membership in ARRL through the club. He directed members to contact him with any questions.



President's Report: Toby, WT8O, explained the delay in publishing the *Wobbly Oscillator*, (computer issues), and his plan to publish a special two-month edition of the *WO* in November.

Toby also reminded members that with resumption of meetings at Busch to keep the parking spots nearest to the Busch building open for those who have mobility issues. Next, because Veterans Day is in November, Toby asked for any veterans at the meeting to stand up and be recognized for their service. One of the members who stood, George, K8KR, a USAF veteran, added that he's noticed greater positive recognition by the general public of veterans.

Vice President's Report: Mark Moro, WJ8WM, (who is also CARS's liaison with ARRL), encouraged members that they should join ARRL, if they've not done so already. ARRL is the national voice for hams in the U.S. and plays a critical role in preserving access to the frequencies we enjoy. Mark also repeated W8GC's reminder on how the club benefits when members join or renew their ARRL memberships *through* CARS.

Secretary's Report: Club Matt Perlman, KE8OZU, was absent. Substitute secretary, Andy Evridge, KD8SCV, had nothing to report.

Committee Reports

Public Service: Ron Hollas, K8RJH, reported that Cuyahoga County ARES (Amateur Radio Emergency Service) is changing its meeting day to the first Tuesday of each month, effective January 2022.

Programs: Joe, KD8BAL, reminded those in attendance of the evening's program as well as the program planned for January 2022, (the latter will be given by Ron, K8RJH, and will be on the topic of preparing for public service).

Tech: Nothing to report, although Toby, WT8O, did tell members that he had offered the CARS repeater network as a back-up to the management of the Cleveland Marathon.

Refreshment: Toby, WT8O, thanked the refreshment committee – Ron, K8RJH (soft drinks), Rich Williams, NW8X (donuts), and Shawn Cresante, KE8RMV (coffee).

Old Business: None to report.

New Business

Elections of club officers and vacant board member positions were addressed. As mentioned above, Eddie, KD8FTS, accepted nomination for the open odd-year board member seat. Mark, WJ8WM, accepted the nomination for the open even-year seat at the October meeting. All other nominations were confirmed at the club's October meeting. Bob, W8GC, offered a motion to accept all nominations as confirmed and then hold a vote. Terry, KB8DTC, seconded and the vote was held. All nominees running for officer positions and the two open board seats were voted in unanimously.

50/50 Drawing: Joe, KD8BAL, won the 50/50



Andy, KD8SCV, gives everyone hope as he sells 50/50 tickets.

Adjournment: Toby, WT8O, adjourned the meeting at 8:04 PM.

After the meeting, guest speaker (and CARS member), Dr. Linas Vaitkus, KE8KOJ, gave a vivid presentation on the realities of COVID-19. Dr. Vaitkus's specialty is pulmonology and he described first-hand the devastation the virus causes, especially among those who have chosen to avoid the vaccine. Dr. Vaitkus's sobering message served as a powerful wake-up call for all present to get vaccinated and to navigate our world more carefully.

Submitted by Andy Evridge, KD8SCV, substituting for CARS Secretary, Matt Perlman, KE8OZU.



Joe, KD8BAL, introduces Dr. Linas Vaitkus, KE8KOJ who gave an enlightening presentation on COVID-19.

NASA Report ***Bob, KC9MRC***

The air force super-secret X37 B has been in orbit for a record 500 days as of Oct. 4, 2021

On October 30, 1938, Orson Wells, and his Mercury Radio Company produced and aired the H. G. Wells novel War of the Worlds. During its airing almost no attempt was made to let the listening public know that it was a radio play. A large percent of the audience panicked believing the earth was under attack by a race of beings from Mars. Some people were so scared they committed suicide. Orson wells was pulled into a US government hearing to explain what happened. As a result, radio and television companies are now required to make a regular announcement that what audiences are listening to or watching is just a just a drama for their entertainment.

CARS **Repeaters**

146.820 (-) PL Tone 110.9

Analog Repeater

Main Site – Brecksville

Receive Only Site – Brunswick

Receive Only Site – Shaker Hts.

Allstar Node 47067

EchoLink Node 343470 (K8ZFR-R)

443.825 (+) PL Tone 131.8

Digital Yaesu Fusion

Linked to 146.820 Repeater

Brecksville

444.75 (+) PL Tone 131.8

Analog Repeater

Not Linked to Other Repeaters

Shaker Hts.

Five Guys *Toby, WJ8D*

Mark Scissorhands

My grandfather used to say, "A man isn't completely dressed without a pocketknife." He would have loved Mark, WJ8WM. Mark always dresses to the nines, complete with a pocketknife, a Leatherman, a Swiss Army knife, a flashlight, a tape measure, and other small tools too numerous to name or for me to remember. If I'm trying to strip a wire with my teeth, he'll whip out a pair of wire strippers from one of his pockets. If I'm using masking tape to cover a wire connection, he'll hand me a roll of electrical tape he produces like a magician holding up a quarter he pulled from someone's ear. When Mark gets married, you can bet he'll step up to the alter wearing a custom tux with cargo pants. One evening, shortly after he joined CARS, Mark picked me up in his Ford van to lend a hand preparing for Field Day. Crammed into the back of the truck he carried every tool, piece of equipment, and part necessary to complete just about any project. He is a one-man Corps of Engineers. Moreover, he uses everything with a degree of skill, few can match. It's amazing to watch him work. By the time he grabs his initial armload of tools, he already has the job planned out. With little hesitation, he labors away scarcely missing a beat on track to completing another masterwork.

Boxcar Andy

Railroad trains are only one of the many subjects Andy, KD8SCV, is an expert on. Many club members will recall the great presentation Andy gave us on modern railroad communications. Mornings can find him parked near the tracks observing and studying the railroad traffic. But there's so much more to Andy than trains. He is an extremely well-read student of history. He is exceptionally knowledgeable about firearms. He is an body of general knowledge that almost always earns him the correct answer for our trivia question on the Wednesday club nets. As our media liaison, Andy has taken that position to a degree we have never achieved. On top of all that, he is one hell of a good guy; and one hell of a good CARS member, always willing to help where there is a need.

Scott of All Trades - Master of Many

Scott, AC8NW, is the kind of guy who dives in and fixes or improves any damaged device he encounters. As a master automotive technician, he spends his days with tools in his hands, and then comes home to a living room in part decorated with antique tools and farm implements. During his career he worked as an electronics technician and a race car fabricator. Scott has helped me by doing some beautiful TIG welding on my custom motorcycles; and in doing so, he contributed with many excellent suggestions. Scott's artistry is displayed in the final makeover of our repeater system at the main site in Brecksville. He is also an accomplished aircraft pilot and boater. We could not ask for a better person to head up our Technical Committee.

Ron, The Likeable

Reminiscent of a character on the old TV show “Get Smart,” who had such a charming personality no opposing spy could defeat him; Ron, K8RJH, is one of the nicest people you could ever meet. Born and raised in Texas, Ron earned his ham license as a teenager, graduated from Texas A & M as an electrical engineer, and worked for many years at the Collins Radio Company. What sets Ron apart from the norm is his patience with people less knowledgeable than himself. His teaching abilities have been exemplified in his meeting demonstrations and assistance with fellow members building projects such as antennas. Ron’s exuberance for the hobby is unmatched. His participation in CARS includes more items than space permits listing here. He’s just as active in ARES as an officer and he participates regularly in events and meetings. Ron is also a member of other local clubs. As a member of our Technical Committee, Ron suggested improvements that have made our repeater system arguably the best in the area. No doubt every member in the club to a man would say Ron is a pleasure to be around. Fortunately for us, he’s not a spy.

Iron Butt Arp

I met Arp, K8ARP, when he and a fellow member of their BMW motorcycle club took the CARS Technician class figuring ham radios were the best way to communicate on long rides. Arp qualified as an Iron Butt Association member riding 1,604 miles in 36 hours aboard his BMW R1200RT. Joining CARS after getting his ticket, Arp became one of our most active members. He’s a CARS Board member, active in public service and on our Public Service Committee. Arp always sets up an alternative energy station at Field Day and coordinates the logging network. He also is a member of the Picnic and Christmas Party Committee. His home station and portable Go Box are engineering masterpieces. Professionally, Arp is an electrician and home remodeler extraordinaire. He has done work in my home and his efforts were outstanding and artistic.

VE Session

The CARS November VE session was held on the 14th of the month in Independence. One new Technician, Donovan Wheatley, passed his exam becoming a licensed amateur. We congratulate Donovan and welcome him into the ham radio hobby.

Special thanks to our outstanding VE team, capably led by Metro, W8MET, and consisting of Gary, N18Z; Linda, N8LRS; Larry, N8OWS; George, K8KR, and Roger, N8TCP.

The next VE testing session will be held Sunday, January 9th, at **9:15 AM*** at the Old Elmwood Recreation Center, 6200 Pete Wisniesky Parkway, Independence 44131. Directions and a map are on the CARS website homepage. For information or an appointment please contact Metro, W8MET, at 216-520-1320 or metro351@sbcglobal.net

As always, walk-ins are welcome.

***Please note time change to 9:15 AM.**

Honorary Members

Any person who by nature of outstanding or meritorious contribution to the furtherance of amateur radio and the ideals of the Cuyahoga Amateur Radio Society

Robert Check, W8GC	Elected 2/10/15
Thomas Wayne, WB8N	Elected 1/10/17
Dwaine Modock, K8ME, SK	Elected 5/9/17
Toby Kolman, WT8O	Elected 10/10/17
Jerry Smith, NW9H	Elected 5/8/18
Ron Borkey, K8VJG, SK	Elected 5/14/19
Ed Stevens, WB8ROK, SK	Elected 8/10/21

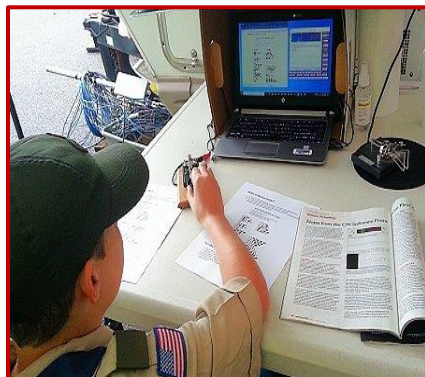
Participating in JOTA 2021

Ron, K8RJH

Jamboree on the Air (JOTA) is now a popular annual event with Scouts and Guides all over the world connecting with each other by amateur radio. It's the sheer excitement of having a spontaneous live conversation over a shortwave radio with a fellow Scout or Guide some other place in the world that attracts so many young people to this event. The use of amateur radio offers an extra educational dimension for Scouts. Many grasp the opportunity to discover the world of wireless radio techniques and electronics as volunteer radio amateurs worldwide assisted the Scouts over the JOTA weekend with their knowledge, equipment, and enthusiasm.



JOTA 2021 HF



CW Decoder Program In Use



K8RJH CW Demo Table

This year, several local Boy Scout troops participated in the JOTA event held at the Orange Village Fire Station on Sunday, October 17th. The organizers arranged four amateur portable stations to be operational demonstrating Voice, Digital and CW capabilities for the attending scouts. The HF Bands were quite active allowing generous contacts made by the Scouts supervised by experienced local ham operators.

In addition to the HF operation, the North Central Ohio K9 Search and Rescue team demonstrated a lost person recovery. Their rescue pack carried an amateur APRS transmitter letting the scouts track the position of the rescue dogs at a base station, as the lost person was located in a nearby wooded lot. It was an impressive activity as the rescued individual was quickly found by just using the scent of one of his old socks!

Ron, K8RJH set up a CW demonstration table that created a lot of interest. Using a straight key and an optional paddle keyer, the scouts could try their new Morse Code skills using the "CWTY Decoder" program installed on a laptop. It ended up being a lot of fun for both Scouts and adults.

Jamboree on the Air met its goal to offer Scouts and young people of all ages to learn about communications technology, the values of global citizenship, and our role in creating a better world through new experiences.



*JOTA 2021
Patch*

*North Central
Ohio K-9*



2022 CARS Dues

Just a reminder, we are accepting your 2022 dues; they are due on or before January 31, 2022. Dues are \$26.00 for members 59 years of age or younger, plus \$16.00 per family member. Dues for age 60 and over are \$18.00 plus \$16.00 per eligible family member.

Please mail dues and other correspondence to:

CARS

7395 Brecksville Rd.

Independence, OH 44131

Payments can also be made via PayPal (PLEASE USE PERSONAL OPTION WHEN PAYING) by sending to w8gc@2cars.org

You can also pay at any CARS meeting.

If you have already paid your 2022 dues "Thank You!" If you are not sure please send me an email.

73, Bob, W8GC, Treasurer CARS



December Net Shed

DEC	1	KC8ESG
DEC	8	WT8O
DEC	15	K8RJH
DEC	22	N8OWS
DEC	29	AC8NW

Nets are run every Wednesday at
9:00 PM on:

146.820 (PL 110.9)

443.825(+) PL Tone 131.8

Digital Yaesu Fusion

Linked to the 146.82 Repeater

EchoLink Node 343470 (K8ZFR-R)

Allstar Node 47067

The *Wobbly Oscillator* is a publication of the Cuyahoga Amateur Radio Society, P.O. Box 31264, Independence, Ohio, 44131-0264. Articles from this publication may be reprinted in any ham radio publication, provided that credit is given to this publication and the author, if known. All submissions should be emailed to: wt8o@att.net by the end of the month for publication in the next month's issue.

CARS 2021 Officers & Committees

Audit

WJ8WM ** WT8O, KD8OUE

Audio/Video

AC8NW **

ARRL Liaison

WJ8WM **

Awards

W8GC ** WT8O

Christmas party & Summer Picnic

WJ8WM **, K8ARP, KD8FTU, KD8FTV

Club Photographer

N8OWS **

Field Day

K8RGI **, WT8O, WJ8WM, K8ARP, KD8SCV, AC8NW, AC8TN, WT8O, K8RJH, N8BBB food

50/50

KD8SCV

Hamvention Bus

KD8FTS **

License classes

KD8ACO **, WT8O, K8SHB

Media Representative

KD8SCV

Membership

WT8O ** W8GC

NET

WT8O **

Newsletter

WT8O ** 440-525-6109

wt8o@att.net

Programs at Meetings

KD8BAL ** KD8FTS, KE8OZU

Property Custodian's

KB8DTC records, W8GC equipment

Public Services

KD8FTS **, K8ARP

QSL Manager - W8HBI, W8BM

WB8N **

Refreshments at Meetings & Picnic

K8RJH ** pop, NW8X ** Donuts

Scholarship

W8GC ** WJ8WM, K8RGI, WB8ROK, WT8O

Sunshine (welfare)

Andy, KD8SCV ** 440-886-0723

Technical

AC8NW ** N8OVW, WJ8WM, KD8ACO, K8RJH, KB8DTC

VE Exams

Metro, W8MET ** 216-520-1320

Web Master/e-mail

W8GC **

** chairman or co-chairman

2021 Officers

PRESIDENT

Toby Kolman WT8O 440-525-6109

wt8o@att.net

VICE-PRESIDENT

Mark Moro, WJ8WM 216-661-0342

SECRETARY

Alternate Secretary: Matt, KE8OZU

TREASURER:

Bob Check W8GC 216-524-1750

Alternate Treasurer: Bob Robbins, K8RGI

Board Members & License Trustees

Board Chairman:

Alternate Chairman:

K8ARP, Arp Viiberg

even year executive board 2 year term

AC8NW, KB8DTC, KD8OUE

odd year executive board 2 year term

K8RGI, K8ARP, K8RJH

License trustee

K8ZFR

WT8O

License trustee

W8HBI, W8BM,

W8GC



October 1, 2021

